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Memo

DATE: *October 19, 2007*

TO: RHIC E-Coolers

FROM: *Ady Herscovitch*

SUBJECT: **Minutes of the October 19, 2007 Meeting**

Present: Michael Blaskiewicz, Mike Brennan, Eunmi Choi, Alexei Fedotov, Harald Hahn, Ady Herscovitch, Vladimir Litvinenko, Dmitry Kayran, Damayanti Naik, Eduard Pozdeyev, Thomas Roser, Vladimir Litvinenko, Thomas Roser, Dejan Trbojevic.

Topic discussed: Stochastic Cooling

Stochastic Cooling: The meeting consisted of a presentation by Mike Blaskiewicz on stochastic cooling plans and a comparison of stochastic and electron beam cooling. Presently, the stochastic cooling band is 5 to 8 GHz. The presentation started by showing the nice cooling effect of stochastic cooling on the RHIC beam, which was followed with a comparison of RHIC stochastic cooling data and simulation results. Excellent agreement exists between the experimental data and simulation results.

Next Mike showed a series of simulations for stochastic cooling of bunches each containing 10^9 gold ions with comparison to electron beam cooling for various scenarios. The figure estimates luminosity as a function of time for various scenarios. We hope to have a system similar to the one in orange triangles installed in the yellow ring next fall.

Below is Mike's slide that summarizes results of various cooling scenarios.

